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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/788,252	02/16/2001	Shigefumi Odaohhara	JA9 1999 0748	4917

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EXAMINER

DEB, ANJAN K

ART UNIT PAPER NUMBER

2858

DATE MAILED: 07/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Applicant(s)

09/788,252

Applicant(s)

ODAOHHARA ET AL.

Examiner

Anjan K Deb

Art Unit

2858

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 July 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2,3 and 5-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 2,3 and 5-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) Z.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Response to Amendment

1. This office action is in response to amendment filed on 7-2-03.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishida (US 5,434,508).

Re claims 5-6, Ishida (US 5,434,508) discloses an electronic device (notebook computer: Fig. 2) driven by a battery pack (31)(Fig. 3) comprising a micro-controller (calculator 32)(Fig. 3) for receiving information concerning power consumption and displaying information concerning residual energy based on the read current consumption (column 2 lines 2-17) output from micro-controller (calculator 32)(Fig. 3)(column 3 lines 55-68, column 4 lines 1-15).

Ishida did not expressly disclose displaying information concerning power consumption value but would have been obvious as this information is required for calculation of residual energy which is based upon read current consumption value obtained by measuring a voltage developed across a sense resistor 36 by the passage of current consumed by the electronic device (Fig. 3).

At the time of the invention it would have been obvious for one of ordinary skill in the art to modify Ishida by adding displaying information concerning power consumption value because Ishida discloses measuring current consumption for the calculation of residual energy in the battery.

4. Claims 2-3, 7-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishida (US 5,434,508) in view of Hull et al. (US 5,606,242).

Re claims 2-3, 7-13, Ishida discloses all of the claimed limitations as set forth above except controllable power switch for shutting off electric power supplied to an electronic device through AC adapter. Even though Ishida did not disclose a source of AC power, notebook computers are known to operate either from power supplied by AC or from a battery pack as disclosed by Hull et al. (US 5,606,242).

Re claim 9, a load terminal, communication terminal, and a line for connecting input terminal to load is inherently disclosed by Ishida as would be required for connecting battery to electronic load (device) and communication terminal for displaying power consumption information calculated by calculator 32 (Fig. 3).

Re claims 2-3, 7-13, Hull et al. (US 5,606,242) discloses method and apparatus comprising an electronic device 16 supplied either by battery pack 10, or by a source of AC power (20,18) and communicating battery condition to an external device by measuring power consumption (I_d) from battery and displaying power consumption for testing battery condition (Fig. 1).

At the time of the invention it would have been obvious for one of ordinary skill in the art to modify Ishida by adding a switch for switching off AC power supplied to an electronic device as disclosed by Hull because a switch is commonly used to turn ON/OFF a source of AC power supply so that by turning OFF AC power supplied to the electronic device the value of residual energy in battery can be determined.

Re claim 11, Ishida did not expressly disclose reducing frequency of collection of power consumption information.

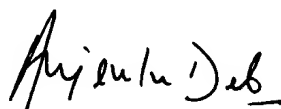
Hull et al. (US 5,606,242) discloses controller (microprocessor) reducing frequency of collection of power consumption information depending upon device state (sleep, standby...)(see column 10 lines 20-30).

At the time of the invention it would have been obvious for one of ordinary skill in the art to modify Ishida by reducing frequency of collection of power consumption information disclosed by Hull et al. to save battery power.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is (703) 308-2941. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le, can be reached at (703)-308-0750.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone numbers are (703)-308-0956 and (703)-305-4900.



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7/29/03

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